

Title (en)
Audio signal processing

Title (de)
Audiosignalverarbeitung

Title (fr)
Traitement du signal audio

Publication
EP 1272004 A2 20030102 (EN)

Application
EP 02100699 A 20020612

Priority
US 88686801 A 20010621

Abstract (en)
A method for processing and transducing audio signals. An audio system has a first audio signal and a second audio signal that have amplitudes. A method for processing the audio signals includes dividing the first audio signal into a first spectral band signal and a second spectral band signal; scaling the first spectral band signal by a first scaling factor proportional to the amplitude of the second audio signal; and scaling the first spectral band signal by a second scaling factor to create a second signal portion. Other portions of the disclosure include application of the signal processing method to multichannel audio systems, and to audio systems having different combinations of directional loudspeakers, full range loudspeakers, and limited range loudspeakers. <IMAGE>

IPC 1-7
H04S 3/00

IPC 8 full level
H04R 3/00 (2006.01); **H04R 5/02** (2006.01); **H04S 3/00** (2006.01); **H04S 5/02** (2006.01); **H04S 7/00** (2006.01)

CPC (source: EP US)
H04S 3/00 (2013.01 - EP US)

Citation (applicant)
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• US 5870484 A 19990209 - GREENBERGER HAL [US]
• EP 0858243 A2 19980812 - BOSE CORP [US]
• US 611266 A 18980927
• US 6711266 B1 20040323 - AYLWARD J RICHARD [US]

Citation (third parties)
Third party :
• US 5809150 A 19980915 - EBERBACH STEVEN J [US]
• ANDREW MARSHALL: "AIG equipment reviews - DCM surroundscape loudspeaker", AUDIO IDEAS GUIDE, pages 1 - 3, XP003008108, Retrieved from the Internet <URL:http://www.audio-ideas.com/reviews/dcm.html>

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EP 1272004 A2 20030102; EP 1272004 A3 20040721; EP 1272004 B1 20150610; CN 100394829 C 20080611; CN 1406100 A 20030326; HK 1053575 A1 20031024; JP 2003047099 A 20030214; JP 4309100 B2 20090805; US 2003002693 A1 20030102; US 2006291669 A1 20061228; US 7164768 B2 20070116; US 8175292 B2 20120508

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